



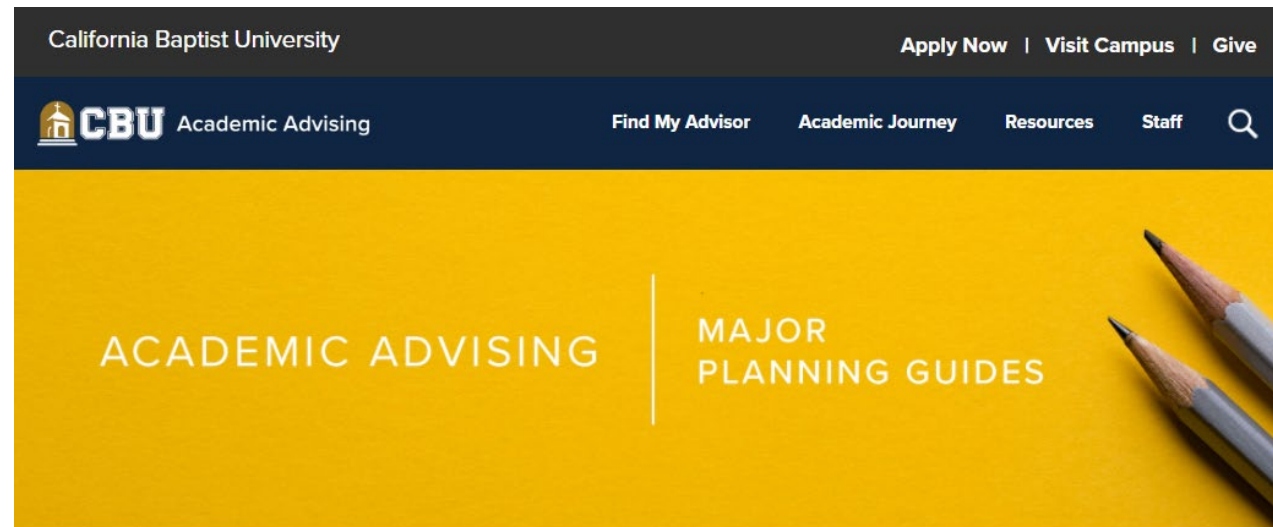
CBU

California Baptist University

Navigating to Your Major Planning Guide

The screenshot displays the CBU InsideCBU website interface. At the top, the navigation menu includes: Academics, Admissions, C&E, Facilities, Financial Aid, HR Info, ITS, Life @ CBU, M and C, Online, Print & Copy, Provost, Safety Services, Student Accounts, UA, and My Pages. A yellow arrow labeled '1' points to the Academics menu item. Below the navigation bar, the breadcrumb trail reads 'You are here: Academics > Traditional Students'. On the left, a sidebar menu lists various academic resources, with a yellow arrow labeled '2' pointing to 'Traditional Students'. The main content area is titled 'Traditional Students' and features a large blue button that says 'FIND MY STUDENT SUCCESS COACH'. Below this are six icons representing different student services: Choosing a Career and Major, Creating a Degree Plan, Registering for Classes, Getting Support, Beyond the Classroom, and Preparing for Graduation. A yellow arrow labeled '3' points to the 'Major Planning Guides' link in the 'Degree Planning Resources' section. This section lists 'Engineering Flowcharts', 'University Catalogs', and 'Degree Guide'. The 'Degree Guide' section includes instructions and links for finding and reading the degree guide. Other sections visible include 'Degree Planning Petitions and Worksheets' with links for Declaration of Major, Degree Course Planning Worksheets, Challenge Course by Certification, and Variance Request Form; 'Registration Resources' with links for registration instructions, worksheets, and athletic schedules; 'Registration Petitions' with links for Academic Overload, Credit/No Credit, and Directed/Independent Study requests; and 'My Degree Guide' with a 'Test Reg4 Person' link. A speaker icon is located in the bottom right corner.

Navigating to Your Major Planning Guide



[CBU](#) > [Academic Advising](#) > [Resources](#) > [Major Planning Guides](#)

Major Planning Guides

Major Planning Guides provide students with easy to read overviews of their major and general education requirements, along with sample plans.

Be sure to view the appropriate guide according to your catalog year (learn how to find your catalog year [here](#)). Refer to the [University Catalog](#) for the most up-to-date course offerings and prerequisites.

- 2023 -2024 Major Planning Guides +
- 2023 -2024 Engineering Flowcharts +





Navigating to Your Major Planning Guide



2023 -2024 Major Planning Guides	
Accounting	
Actuarial Science	
Anthropology - Cultural Anthropology	
Anthropology - Psychological Anthropology	
Applied Theology	
Architecture (B.A.)	
Architecture (M.Arch.)	
Art Education	
Art Therapy Studies	
Aviation Flight - Commercial	
Aviation Flight - Military	
Aviation Flight - Missionary	
Aviation Flight - Unmanned Aerial Systems	
Aviation Management - Aerospace Techno	
Aviation Management - Airport Managem	
Aviation Management - Dispatch	
Aviation Management - Flight Operations	

 **Majors with a dash in the middle of the program title include a Concentration.**



Major Planning Guide

Biology, BS - Secondary Biology Education				2023-2024
Traditional Major Program Requirements				
Lower Division Requirements	Unit(s)	Prerequisite(s)	When Offered	Notes
BIO101 Orientation to the Discipline	1	-	Fall, Spring	
BIO146 General Biology I w/Lab	4	-	Fall, Spring	
BIO148 General Biology II w/Lab	4	-	Fall, Spring	
CHE115 General Chemistry I	3	CHE102 or HS Chem	Fall, Spring	
CHE115L General Chemistry I Lab	1	Pre-Req/Co-Req CHE115	Fall, Spring	
CHE125 General Chemistry II	3	CHE115 & 115L	Fall, Spring	
CHE125L General Chemistry II Lab	1	Pre-Req: CHE115L; Co-Req CHE125	Fall, Spring	
PHY214 Physics I	3	MAT145 or 245	Fall, Spring	Recommend Fall; PHY214D is an 1-unit option course (Register for PHY214D)
PHY214L Physics I Lab	1	Recommended co-req: PHY214	Fall, Spring	Recommend Fall
PHY224 Physics II	3	PHY214	Spring	PHY224D is an 1-unit option course (Register for PHY224D)
PHY224L Physics II Lab	1	Recommended co-req: PHY224	Spring	
Complete one of the following:				
MAT145 Math Methods in Natural Sciences	4	MAT115, 135, or Placement	Fall, Spring	MAT245 is recommended for students planning to apply for Grad Schools
OR MAT245 Analytical Geometry & Calculus I		MAT135, 145, or Placement		
Upper Division Requirements	Unit(s)	Prerequisite(s)	When Offered	Notes
BIO313 Genetics	4	BIO146	Fall, Spring	
BIO330 Cell & Molecular Biology w/Lab	4	BIO146 & 148; Rec. CHE125	Fall, Spring	
CHE351 Organic Chemistry I w/Lab	4	CHE125 & CHE125L	Fall, Spring	
CHE352 Organic Chemistry II w/Lab	4	CHE351	Fall, Spring	
Practicum Requirement	Unit(s)	Prerequisite(s)	When Offered	Notes
Complete three (3) units among the following:				
BIO380 Biology Seminar	1	-	Fall, Spring	



Major

General Education

4-Year Sample Plan

3-Year Sample Plan



Major Planning Guide

Biology, BS - Secondary Biology Education		2023-2024		
Traditional Major Program Requirements				
Lower Division Requirements	Units	Prerequisites	When Offered	Notes

Total Required Units	124			
Major	68			
General Education	36			
Electives	24			
Total Required Upper Division Units	39			
Major	35			
Electives	4			

[For information on the Lake Erie College of Osteopathic Medicine Early Acceptance Program, contact Jaime Murphy at \[jmurphy@lecom.edu\]\(mailto:jmurphy@lecom.edu\).](#)

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Add more rows at bottom.

☰ Major ▾ General Education ▾ 4-Year Sample Plan ▾ 3-Year Sample Plan ▾

BIO101 General	4	BIO101	Fall Spring	
BIO101 Lab & Molecular Biology (1+Lab)	4	BIO101 & Lab Req. (1+Lab)	Fall Spring	
CHE101 Organic Chemistry I (1+Lab)	4	CHE101 & CHE101L	Fall Spring	
CHE102 Organic Chemistry II (1+Lab)	4	CHE102	Fall Spring	

Prerequisite Requirement	Units	Prerequisites	When Offered	Notes
Complete three (3) units from among the following:				
BIO101 General Science	4		Fall Spring	

☰ Major ▾ General Education ▾ 4-Year Sample Plan ▾ 3-Year Sample Plan ▾



Major Planning Guide

Biology, BS - Secondary Biology Education				2023-2024
Traditional Major Program Requirements				
Lower Division Requirements				
Unit(s)	Prerequisite(s)	When Offered	Notes	
BIO101 Orientation to the Discipline	1	-	Fall, Spring	
BIO146 General Biology I w/Lab	4	-	Fall, Spring	
BIO148 General Biology II w/Lab	4	-	Fall, Spring	
CHE115 General Chemistry I	3	CHE102 or HS Chem	Fall, Spring	
CHE115L General Chemistry I Lab	1	Pre-Req/Co-Req CHE115	Fall, Spring	
CHE125 General Chemistry II	3	CHE115 & 115L	Fall, Spring	
CHE125L General Chemistry II Lab	1	Pre-Req: CHE115L; Co-Req CHE125	Fall, Spring	
PHY214 Physics I	3	MAT145 or 245	Fall, Spring	Recommend Fall; PHY214D is an 1-unit option course (Register for PHY214D)
PHY214L Physics I Lab	1	Recommended co-req: PHY214	Fall, Spring	Recommend Fall
PHY224 Physics II	3	PHY214	Spring	PHY224D is an 1-unit option course (Register for PHY224D)
PHY224L Physics II Lab	1	Recommended co-req: PHY224	Spring	
Complete one of the following:				
MAT145 Math Methods in Natural Sciences	4	MAT115, 135, or Placement	Fall, Spring	MAT245 is recommended for students planning to apply for Grad Schools
OR MAT245 Analytical Geometry & Calculus I		MAT135, 145, or Placement		
Upper Division Requirements				
Unit(s)	Prerequisite(s)	When Offered	Notes	
BIO313 Genetics	4	BIO146	Fall, Spring	
BIO330 Cell & Molecular Biology w/Lab	4	BIO146 & 148; Rec. CHE125	Fall, Spring	
CHE351 Organic Chemistry I w/Lab	4	CHE125 & CHE125L	Fall, Spring	
CHE352 Organic Chemistry II w/Lab	4	CHE351	Fall, Spring	
Practicum Requirement				
Unit(s)	Prerequisite(s)	When Offered	Notes	
Complete three (3) units from among the following:				
BIO380 Biology Seminar	1	-	Fall, Spring	



Major ▾

General Education ▾

4-Year Sample Plan ▾

3-Year Sample Plan ▾



Major Planning Guide

Biology, BS - Secondary Biology Education				2023-2024
Traditional Master's Program Requirements				
Lower Division Requirements	Unit(s)	Prerequisite(s)	When Offered	Notes
BIO101 Orientation to the Discipline	1	-	Fall, Spring	
BIO146 General Biology I w/Lab	4	-	Fall, Spring	
BIO148 General Biology II w/Lab	4	-	Fall, Spring	
CHE115 General Chemistry I	3	CHE102 or HS Chem	Fall, Spring	
CHE115L General Chemistry I Lab	1	Pre-Req/Co-Req CHE115	Fall, Spring	
CHE125 General Chemistry II	3	CHE115 & 115L	Fall, Spring	
CHE125L General Chemistry II Lab	1	Pre-Req: CHE115L; Co-Req CHE125	Fall, Spring	
PHY214 Physics I	3	MAT145 or 245	Fall, Spring	Recommend Fall; PHY214D is an 1-unit option course (Register for PHY214D)
PHY214L Physics I Lab	1	Recommended co-req: PHY214	Fall, Spring	Recommend Fall
PHY224 Physics II	3	PHY214	Spring	PHY224D is an 1-unit option course (Register for PHY224D)
PHY224L Physics II Lab	1	Recommended co-req: PHY224	Spring	
Complete one of the following:				
MAT145 Math Methods in Natural Sciences	4	MAT115, 135, or Placement	Fall, Spring	MAT245 is recommended for students planning to apply for Grad Schools
OR MAT245 Analytical Geometry & Calculus I		MAT135, 145, or Placement		
Upper Division Requirements	Unit(s)	Prerequisite(s)	When Offered	Notes
BIO313 Genetics	4	BIO146	Fall, Spring	
BIO330 Cell & Molecular Biology w/Lab	4	BIO146 & 148; Rec. CHE125	Fall, Spring	
CHE351 Organic Chemistry I w/Lab	4	CHE125 & CHE125L	Fall, Spring	
CHE352 Organic Chemistry II w/Lab	4	CHE351	Fall, Spring	
Practicum Requirement	Unit(s)	Prerequisite(s)	When Offered	Notes
Complete three (3) units from among the following:				
BIO380 Biology Seminar	1	-	Fall, Spring	



Major ▾

General Education ▾

4-Year Sample Plan ▾

3-Year Sample Plan ▾



Major Planning Guide

Biology, BS - Secondary Biology Education				2023-2024
Traditional Major Program Requirements				
Lower Division Requirements	Unit(s)	Prerequisite(s)	When Offered	Notes
BIO101 Orientation to the Discipline	1	-	Fall, Spring	
BIO146 General Biology I w/Lab	4	-	Fall, Spring	
BIO148 General Biology II w/Lab	4	-	Fall, Spring	
CHE115 General Chemistry I	3	CHE102 or HS Chem	Fall, Spring	
CHE115L General Chemistry I Lab	1	Pre-Req/Co-Req CHE115	Fall, Spring	
CHE125 General Chemistry II	3	CHE115 & 115L	Fall, Spring	
CHE125L General Chemistry II Lab	1	Pre-Req: CHE115L; Co-Req CHE125	Fall, Spring	
PHY214 Physics I	3	MAT145 or 245	Fall, Spring	Recommend Fall; PHY214D is an 1-unit option course (Register for PHY214D)
PHY214L Physics I Lab	1	Recommended co-req: PHY214	Fall, Spring	Recommend Fall
PHY224 Physics II	3	PHY214	Spring	PHY224D is an 1-unit option course (Register for PHY224D)
PHY224L Physics II Lab	1	Recommended co-req: PHY224	Spring	
Complete one of the following:				
MAT145 Math Methods in Natural Sciences	4	MAT115, 135, or Placement	Fall, Spring	MAT245 is recommended for students planning to apply for Grad Schools
OR MAT245 Analytical Geometry & Calculus I		MAT135, 145, or Placement		
Upper Division Requirements	Unit(s)	Prerequisite(s)	When Offered	Notes
BIO313 Genetics	4	BIO146	Fall, Spring	
BIO330 Cell & Molecular Biology w/Lab	4	BIO146 & 148; Rec. CHE125	Fall, Spring	
CHE351 Organic Chemistry I w/Lab	4	CHE125 & CHE125L	Fall, Spring	
CHE352 Organic Chemistry II w/Lab	4	CHE351	Fall, Spring	
Practicum Requirement	Unit(s)	Prerequisite(s)	When Offered	Notes
Complete three (3) units from among the following:				
BIO380 Biology Seminar	1	-	Fall, Spring	



Major ▾

General Education ▾

4-Year Sample Plan ▾

3-Year Sample Plan ▾



Major Planning Guide

Biology, BS - Secondary Biology Education				2023-2024
Traditional Major Program Requirements				
Lower Division Requirements	Unit(s)	Prerequisite(s)	When Offered	Notes
BIO101 Orientation to the Discipline	1	-	Fall, Spring	
BIO146 General Biology I w/Lab	4	-	Fall, Spring	
BIO148 General Biology II w/Lab	4	-	Fall, Spring	
CHE115 General Chemistry I	3	CHE102 or HS Chem	Fall, Spring	
CHE115L General Chemistry I Lab	1	Pre-Req/Co-Req CHE115	Fall, Spring	
CHE125 General Chemistry II	3	CHE115 & 115L	Fall, Spring	
CHE125L General Chemistry II Lab	1	Pre-Req: CHE115L; Co-Req CHE125	Fall, Spring	
PHY214 Physics I	3	MAT145 or 245	Fall, Spring	Recommend Fall; PHY214D is an 1-unit option course (Register for PHY214D)
PHY214L Physics I Lab	1	Recommended co-req: PHY214	Fall, Spring	Recommend Fall
PHY224 Physics II	3	PHY214	Spring	PHY224D is an 1-unit option course (Register for PHY224D)
PHY224L Physics II Lab	1	Recommended co-req: PHY224	Spring	
Complete one of the following:				
MAT145 Math Methods in Natural Sciences	4	MAT115, 135, or Placement	Fall, Spring	MAT245 is recommended for students planning to apply for Grad Schools
OR MAT245 Analytical Geometry & Calculus I		MAT135, 145, or Placement		
Upper Division Requirements	Unit(s)	Prerequisite(s)	When Offered	Notes
BIO313 Genetics	4	BIO146	Fall, Spring	
BIO330 Cell & Molecular Biology w/Lab	4	BIO146 & 148; Rec. CHE125	Fall, Spring	
CHE351 Organic Chemistry I w/Lab	4	CHE125 & CHE125L	Fall, Spring	
CHE352 Organic Chemistry II w/Lab	4	CHE351	Fall, Spring	
Practicum Requirement	Unit(s)	Prerequisite(s)	When Offered	Notes
Complete three (3) units from among the following:				
BIO380 Biology Seminar	1	-	Fall, Spring	



Major ▾

General Education ▾

4-Year Sample Plan ▾

3-Year Sample Plan ▾



Major Planning Guide

Biology, BS - Secondary Biology Education				2023 - 2024
Traditional Major Program Requirements				
Lower Division Requirements	Unit(s)	Prerequisite(s)	When Offered	Notes
BIO101 Orientation to the Discipline	1	-	Fall, Spring	
BIO146 General Biology I w/Lab	4	-	Fall, Spring	
BIO148 General Biology II w/Lab	4	-	Fall, Spring	
CHE115 General Chemistry I	3	CHE102 or HS Chem	Fall, Spring	
CHE115L General Chemistry I Lab	1	Pre-Req/Co-Req CHE115	Fall, Spring	
CHE125 General Chemistry II	3	CHE115 & 115L	Fall, Spring	
CHE125L General Chemistry II Lab	1	Pre-Req: CHE115L; Co-Req CHE125	Fall, Spring	
PHY214 Physics I	3	MAT145 or 245	Fall, Spring	Recommend Fall; PHY214D is an 1-unit option course (Register for PHY214D)
PHY214L Physics I Lab	1	Recommended co-req: PHY214	Fall, Spring	Recommend Fall
PHY224 Physics II	3	PHY214	Spring	PHY224D is an 1-unit option course (Register for PHY224D)
PHY224L Physics II Lab	1	Recommended co-req: PHY224	Spring	
Complete one of the following:				
MAT145 Math Methods in Natural Sciences	4	MAT115, 135, or Placement	Fall, Spring	MAT245 is recommended for students planning to apply for Grad Schools
OR MAT245 Analytical Geometry & Calculus I		MAT135, 145, or Placement		
Upper Division Requirements	Unit(s)	Prerequisite(s)	When Offered	Notes
BIO313 Genetics	4	BIO146	Fall, Spring	
BIO330 Cell & Molecular Biology w/Lab	4	BIO146 & 148; Rec. CHE125	Fall, Spring	
CHE351 Organic Chemistry I w/Lab	4	CHE125 & CHE125L	Fall, Spring	
CHE352 Organic Chemistry II w/Lab	4	CHE351	Fall, Spring	
Practicum Requirement	Unit(s)	Prerequisite(s)	When Offered	Notes
Complete three (3) units from among the following:				
BIO380 Biology Seminar	1	-	Fall, Spring	



Major Planning Guide

Biology, BS - Secondary Biology Education		2023-2024		
Traditional Major Program Requirements				
Lower Division Requirements	Units	Prerequisites	When Offered	Notes

Total Required Units	124			
Major	68			
General Education	36			
Electives	24			
Total Required Upper Division Units	39			
Major	35			
Electives	4			

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Add more rows at bottom.

☰ Major ▾ General Education ▾ 4-Year Sample Plan ▾ 3-Year Sample Plan ▾

BIOL101 General	4	BIOL101	Fall Spring	
BIOL101 Lab & Molecular Biology (1+Lab)	4	BIOL101 & Lab Req. (1+Lab)	Fall Spring	
CHM101 Organic Chemistry I (1+Lab)	4	CHM101 & CHM101L	Fall Spring	
CHM101 Organic Chemistry II (1+Lab)	4	CHM101	Fall Spring	

Prerequisite Requirement	Units	Prerequisites	When Offered	Notes
Complete three (3) units from among the following:				
BIOL101 General Science	4		Fall Spring	

☰ Major ▾ General Education ▾ 4-Year Sample Plan ▾ 3-Year Sample Plan ▾



Major Planning Guide

Biology, BS - Secondary Biology Education

2023-2024

General Education Requirements

Foundations	Units	Notes
ENG113 or ENG113E Composition (4 units)	3	Based on placement
ENG123 or ENG123E Intermediate Composition (4 units)	3	Based on placement
Mathematics	3	Major will meet

If you are exempt from ENG113, add 3 units to Additional Elective Units Needed.

Biblical and Theological Core	9 units	Notes
Christian Studies or Intercultural Studies	6	
Christian Studies or Intercultural Studies or ISP	3	

Civic World (No more than 3 units from one area)	6 units	Notes
Political Worldview (WLD161)	3	
Economics	3	
History	3	
Political Science	3	
Law	3	

Creative World	3 units	Notes
Creative Worldview (WLD 171)	3	
Creative Writing	3	
Design	3	
Film Production (FLP)	3	
Fine Art	3	
Graphic Design	3	

Illustration	3	
Music	3	
Photography	3	
Theatre	3	

Cultural World	3 units	Notes
Cultural Worldview (WLD181)	3	

English	3	
Film (FLM)	3	



Major Planning Guide

Biology, BS - Secondary Biology Education										2023-2024	
Freshman Year					Sophomore Year						
Fall 2023		Spring 2024		Summer		Fall 2024		Spring 2025		Summer	
BIO146 General Biology I w/Lab	4	BIO148 General Biology II w/Lab	4			CHE351 Organic Chemistry I w/Lab	4	CHE352 Organic Chemistry II w/Lab	4		
CHE115 General Chemistry I	3	CHE125 General Chemistry II	3			PHY214 Physics I	3	PHY224 Physics II (Spring Only)	3		
CHE115L General Chemistry I Lab	1	CHE125L General Chemistry II Lab	1			PHY214L Physics I Lab	1	PHY224L Physics II Lab (Spring Only)	1		
BIO101 Orientation to the Discipline	1	MAT145 or MAT245	4			Recommend PHY214D Physics I Discussion - Elective	1	Recommend PHY224D Physics II Discussion - Elective	1		
ENG113 Composition or ENG13E (4 units)	3	ENG123 Intermediate Composition or ENG13E (4 units)	3			General Education Course	3	General Education Course	3		
General Education Course (or Math Course if needed)	3	Elective	3			General Education Course	3	General Education Course	3		
GST100 Focus	1										
*If Chemistry placement is CHE102, this will change this sample plan											
Total: 16		Total: 18		Total: 0		Total: 15		Total: 15		Total: 0	
Junior Year					Senior Year						
Fall 2025		Spring 2026		Summer		Fall 2026		Spring 2027		Summer	
BIO330 Cell & Molecular Biology w/Lab	4	BIO114 General Botany w/Lab (Spring Only)	4			**Biology Practicum Class	1	BIO302 Ecology w/ Lab (Spring Only)	4		
BIO313 Genetics	4	**Biology Practicum Class	1			ENV451 Advanced Geosciences w/ Lab	4	**Biology Practicum Class	1		
General Education Course	3	PHY301 Astronomy II (Spring Odd Years)	3			General Education Course	3	BIO344 Vertebrate Physiology w/Lab (Spring)	4		
General Education Course	3	PHY301 Astronomy II Lab (Spring Odd Years)	1			Upper Division General Education Course	3	Upper Division General Education Course	3		
Elective	1	Upper Division General Education Course	3			Elective	3	Elective	3		
		General Education Course	3			Elective	1				
Total: 15		Total: 15		Total: 0		Total: 15		Total: 15		Total: 0	
					Total Units: 124 (124 units needed to graduate)						



Major Planning Guide

Biology, BS - Secondary Biology Education										2023-2024	
Freshman Year					Sophomore Year						
Fall 2023		Spring 2024		Summer		Fall 2024		Spring 2025		Summer	
BIO146 General Biology I w/Lab	4	BIO148 General Biology II w/Lab	4			CHE351 Organic Chemistry I w/Lab	4	CHE352 Organic Chemistry II w/Lab	4		
CHE115 General Chemistry I	3	CHE125 General Chemistry II	3			PHY214 Physics I	3	PHY224 Physics II (Spring Only)	3		
CHE115L General Chemistry I Lab	1	CHE125L General Chemistry II Lab	1			PHY214L Physics I Lab	1	PHY224L Physics II Lab (Spring Only)	1		
BIO101 Orientation to the Discipline	1	MATH45 or MAT245	4			Recommend PHY214D Physics I Discussion - Elective	1	Recommend PHY224D Physics II Discussion - Elective	1		
ENG113 Composition or ENG113E (4 units)	3	ENG123 Intermediate Composition or ENG123E (4 units)	3			General Education Course	3	General Education Course	3		
General Education Course (or Math Course if needed)	3	Elective	3			General Education Course	3	General Education Course	3		
GST100 Focus	1										
*If Chemistry placement is CHE102, this will change this sample plan											
Total: 16		Total: 18		Total: 0		Total: 15		Total: 15		Total: 0	
Junior Year					Senior Year						
Fall 2025		Spring 2026		Summer		Fall 2026		Spring 2027		Summer	
BIO330 Cell & Molecular Biology w/Lab	4	BIO114 General Botany w/Lab (Spring Only)	4			**Biology Practicum Class	1	BIO302 Ecology w/ Lab (Spring Only)	4		
BIO313 Genetics	4	**Biology Practicum Class	1			ENV451 Advanced Geosciences w/ Lab	4	**Biology Practicum Class	1		
General Education Course	3	PHY301 Astronomy II (Spring Odd Years)	3			General Education Course	3	BIO344 Vertebrate Physiology w/Lab (Spring)	4		
General Education Course	3	PHY301 Astronomy II Lab (Spring Odd Years)	1			Upper Division General Education Course	3	Upper Division General Education Course	3		
Elective	1	Upper Division General Education Course	3			Elective	3	Elective	3		
		General Education Course	3			Elective	1				
Total: 15		Total: 15		Total: 0		Total: 15		Total: 15		Total: 0	
					Total Units: 124 (124 units needed to graduate)						

